Riga Wood
Latvijas Finieris Group

Riga Form

Riga Form is a birch throughout plywood, overlaid on both faces with specially designed films for intensive, heavy-duty uses.

Applications

Riga Form is a durable birch plywood designed for intensive heavy-duty use in the formwork sector with as many as 80 reuses possible. Thanks to its excellent mechanical properties and range of colours, Riga Form can be used in various other industries as well.

HEAVY BUILDING
Formwork systems
Loose shuttering
Precasting
Scaffolding

ROAD TRANSPORT
Light & Heavy commercial vehicles
Buses

LIGHT BUILDING
Industrial wall & Ceiling linings

PACKAGING INDUSTRY
Die boards

RAIL TRANSPORT
Passenger & Cargo wagons

Major advantages

• Withstands large mechanical loads – excellent weight to strength ratio • Weather resistant gluing and water resistant surface • Cost efficient and easily workable with long life span • Smooth finish and sealing, resulting in substantial time and cost saving • Variety of standard sizes, cut-to-size and scarf-jointed panels available • Surface is resistant to commonly used chemicals and surface impact, easy to clean for repeated uses • Sustainable product

Further processing

Riga Form can be further processed according to customer's specification with: cut-to-size, CNC, drilling, milling, jointing, edge machining, assembling in sets, and scarf jointing.

Overlaying

Overlaid with resin impregnated film, which is hot-pressed onto the sheet surface, ensuring a smooth and protected surface. Depending on the application, films impregnated with modified phenolic or melamine resins can be applied. To enhance the product properties, it is possible to use multi-layer film.
Both customised logo printing and custom printed films available.

Surface properties

Surface is smooth, glossy and dense, improving panel resistance against mechanical damage and wearing. It resists abrasion, commonly used chemicals and is weather and moisture resistant. The surface can be easily cleaned with water or steam. Depending on the film used, abrasion, crack, UV resistance and other surface properties can be customised. Riga Wood experts will advise the most appropriate overlay depending on the end use.

Wear resistance

Taber test (EN 438-2) up to 10,000 revolutions depending on the coating.

Dark brown 120 g/m² up to 400 revolutions
Dark brown 220 g/m² up to 900 revolutions
Special wear resistant film 350 g/m² up to 10,000 revolutions
Dark brown 440 g/m² up to 2,500 revolutions

Film colour

Based on phenolic resin:

- dark brown
- black
- green*
- light brown*
- yellow
- red*

Based on melamine resin:

- silver grey
- honey
- light grey
- blue

Film weights from 120 g/m² to 660 g/m².
Special wear resistant film available.
*With BB grade veneer under these translucent films.

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Edge sealing

The edges are sealed with colour matched moisture resistant paint.
Other colours are available upon request.

Panel sizes

- 1220 / 1250 mm x 2440 / 2500 / 2745 / 2750 / 3000 / 3050 / 3340 / 3660 mm
- 1500 / 1525 mm x 2440 / 2500 / 2745 / 2750 / 3000 / 3050 / 3340 / 3660 mm
- 1830 / 1850 mm x 3050 / 3340 / 3660 / 3850 mm
- 2150 mm x 3050 / 3340 / 3850 / 4000 mm
- 2290 mm x 4000 mm
- 2440 / 2500 mm x 1220 / 1250 mm

Standard thicknesses

4, 6.5, 9, 12, 15, 18, 21, 24, 27, 30, 35, 40, 45, 50 mm
Other thicknesses available on request.

Gluing classes

Riga Wood birch plywood is glued with weather and boil-proof phenol formaldehyde or lignin phenol formaldehyde resin adhesive according to EN 314/Class 3 Exterior.
Bonding with moisture resistant low emission melamine-urea-formaldehyde resin according to EN 314 / Class 1 and BS 1203 / H1 possible.

Formaldehyde emission

Riga Wood birch plywood formaldehyde emission level is significantly below EN 13986 Class E1 and complies with EPA TSCA Title VI and CARB Phase 2.

Tolerance

Nominal thickness, mm	4	6.5	9	12	15	18	21	24	27	30	35	40	45	50
Number of plies	3	5	7	9	11	13	15	17	19	21	25	29	32	35
Lower limit, mm	3.5	6.1	8.8	11.5	14.3	17.1	20	22.9	25.8	28.7	33.6	38.4	43.3	48.1
Upper limit, mm	4.1	6.9	9.5	12.5	15.3	18.1	20.9	23.7	26.8	29.9	35.4	41.2	46.4	51.5

Moisture content affects plywood dimensions; indicated sizes and thicknesses relate to a moisture content 9 ± 3%.

Parameter	Tolerance
Length, width (mm) < 1000	± 1 mm
Length, width (mm) – 1000..2000	± 2 mm
Length, width (mm) > 2000	± 3 mm
Squareness tolerance	± 1 mm/m
Edge straightness	± 1 mm/m

Size, squareness and thickness tolerances fulfil the requirements of EN 315.
Customised tolerances available on request.

Sustainability

We strongly believe that wood-based products in industrial use are a great option for carbon storage and a big part of the solution to achieve climate change mitigation. The key principles of sustainability and responsible governance are deeply rooted in our company's traditions and we aim to further develop our initiatives by actively engaging with stakeholders, material suppliers and clients.

Storage

Plywood must be stored in a well ventilated, weather protected area with the panels stacked both horizontally and level.

Additional information is available in the Riga Wood plywood handbook:
https://www.finieris.com/en/downloads/brochures